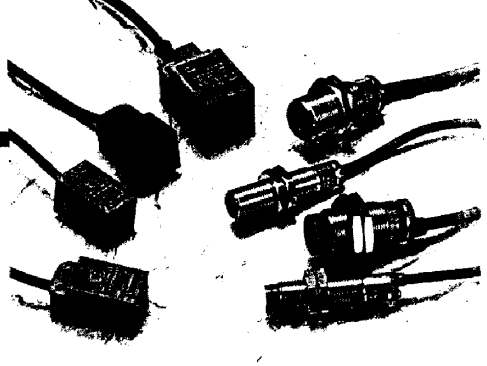
PROXIMITY SWITCH



■ GENERAL SPECIFICATIONS

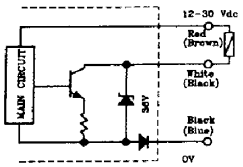
Operating Voltage	DC 10~30V AC 90~250V
Current Consumption	DC type: 10mA max. AC type: 5mA max. Capacitive type: 15mA max.
Sensing Target	Inductive type: magnetic metal. Capacitive type: metal or dielectric material.
Hysteresis	less than 10% Sn (sensing distance).
Load Current	100 mA max.
Operating Temperature	-25℃ to +70℃
Operating Humidity	35-95% RH.
Residual Voltage	DC type: 1V max. AC type: 8.5V max.
Insulation Resistance	50 MΩ min. (at 500VDC).
Dielectric Strength	DC type: AC 1000V. AC type: AC 2000V. 50/60 Hz for 1 minute between current-carrying part and ground current.
Leakage Current	DC type: 0.05 mA max. AC type: 2mA max.

FEATURES:

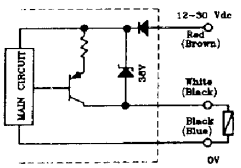
Wide variety of model
Wide operating voltage range
Short circuit protected
Conforming to IP66
Fast response

■ OUTPUT STAGE DIAGRAM

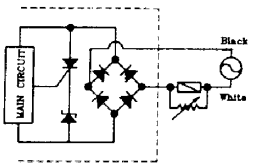
NPN



PNP



AC



■ ORDER GUIDE

P12 — 05N — 1 — P — V

- Housing outline
  - T: Inductive Thread Round
  - S: Inductive Square
  - P: Inductive Plane
  - PS: Inductive Plane Housing with insert Screw
  - SC: Capacitive Square
  - RC: Capacitive Round
- Diameter of Sensing Face
  - Unit: mm (for example: 12x12 mm)
- Sensing Distance
  - Unit: mm (for example: 5mm)
- Output Stage
  - N: NPN open collector DC mode
  - P: PNP open collector DC mode
  - A: AC two wire AC mode
- Output Fuction
  - 1: N. O. Normally Open
  - 2: N. C. Normally close
- Housing Material
  - P: Plastic
  - M: Metal
- Sensing Direction
  - V: Vertical
  - H: Horizontal

INDUCTIVE PROXIMITY SWITCH

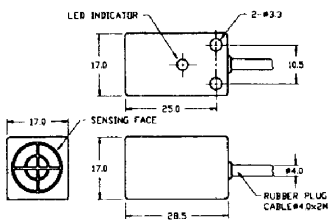
TYPE / ITEM NO. / Output Circuit	Inductive Square Plastic Body									
	S17	S18		SL18	S25		S30		S40	
	DC	DC	AC	DC	DC	AC	DC	AC	DC	AC
* NPN NO	S17-05N-1	S18-05N-1		S18-05N-1L	S25-07N-1		S30-10N-1		S40-20N-1	
NPN NC	S17-05N-2	S18-05N-2		S18-05N-2L	S25-07N-2		S30-10N-2		S40-20N-2	
PNP NO	S17-05P-1	S18-05P-1		S18-05P-1L	S25-07P-1		S30-10P-1		S40-20P-1	
PNP NC	S17-05P-2	S18-05P-2		S18-05P-2L	S25-07P-2		S30-10P-2		S40-20P-2	
AC NO			S18-04A-1			S25-07A-1		S30-10A-1		S40-20A-1
Sensing Distance (Sn) (Sn)	5mm ± 10%	5mm ± 10%	4mm ± 10%	5mm ± 10%	7mm ± 10%		10mm ± 10%		20mm ± 10%	
Effective Distance	0-4mm	0-4mm	0-3mm	0-4mm	0-5.6mm		0-8mm		0-16mm	
Standard Target (iron)	17x17x1mm	18x18x1mm		18x18x1mm	25 x 25 x 1mm		30 x 30 x 1 mm		40 x 40 x 1mm	
Switching Frequency max. (f)	1.5 KHZ		10 HZ	1.5 KHZ	1 KHZ	10 HZ	1 KHZ	10 HZ	600 HZ	10 HZ
Circuit Protection *1	▲●	▲●		▲●	▲●		▲●		▲●	

NOTE: *1 ▲Output short circuit protection, ● Reverse polority protection of supply voltage

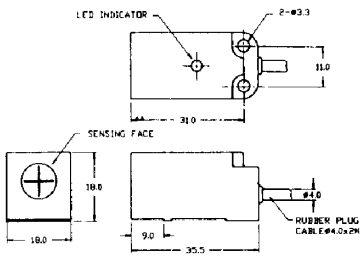
■ DIMENSIONS

(unit: mm)

S17



S18



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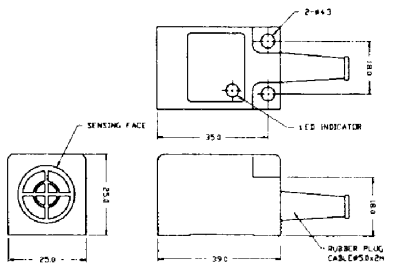

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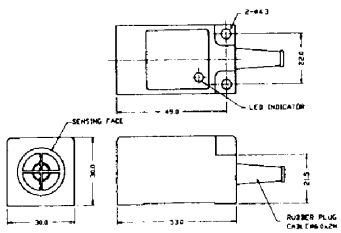
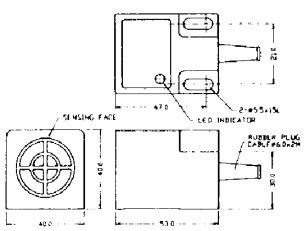


S40



SL 18